

Chapter 1

Getting Acquainted

This chapter describes unpacking the 5 GHz Wireless-N HD Access Point/Bridge WNHDE111, its key hardware features, and positioning the unit.

This chapter includes the following sections:

- [“Unpacking Your New Wireless-N AccessPoint/Bridge” on page 1-1](#)
- [“Key Hardware Features” on page 1-3](#)
- [“Positioning Your Unit” on page 1-6](#)

Before you begin installing your bridge, check the package contents. Become familiar with the front and back panels of your bridge—especially the status lights—and the important information on the bridge label. Then, read the section on positioning your to ensure that you have selected the best location to install your bridge.

Unpacking Your New Wireless-N AccessPoint/Bridge

Your product package should contain the following items:

- The bridge
- A snap-on stand for your bridge
- An AC power adapter (varies by region)
- A blue Ethernet cable
- The *Resource CD*, which includes:
 - The Smart Wizard Installation Assistant
 - A link to the online *User Manual*
- Warranty and Support Information cards

If any of the parts are incorrect, missing, or damaged, contact your NETGEAR dealer. Keep the carton, including the original packing materials, in case you need to return the product for repair.

Prepare for Installation

Carefully peel off the protective film covering both sides of your bridge

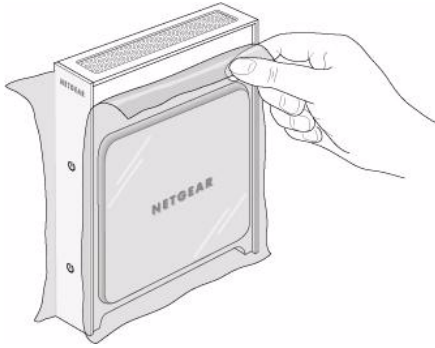


Figure 1

Set up your bridge by inserting the tabs of the stand into the slots on its bottom as shown. Then, remove the protective film covering the status light panel.

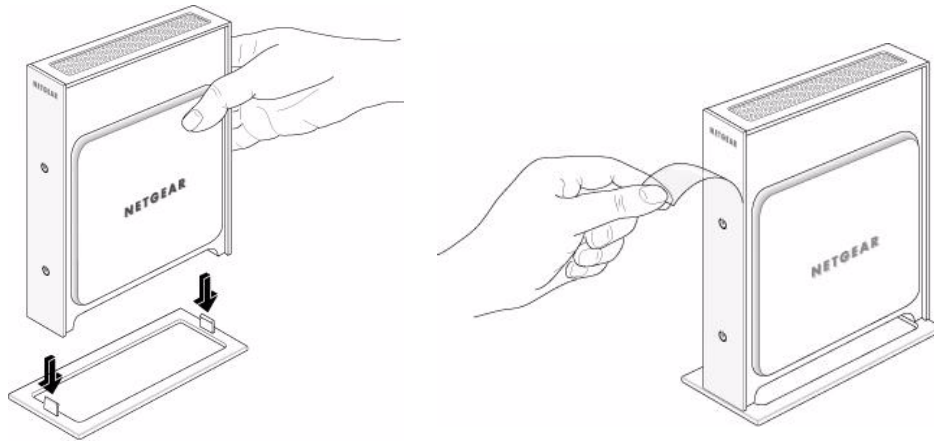


Figure 2

Place your bridge in a suitable area for installation (near an AC power outlet and accessible to the Ethernet cables for your wired connections).



Note: To ensure proper heat dissipation and for bridge stability, it is important that you connect the stand, place your bridge in an upright position, and do not block the vent holes at the top.

Key Hardware Features

Before you install and connect your bridge, take a moment to become familiar with its front and back panels—especially the status light and Push N Connect push button on the front panel.

Front Panel

The lights on the front panel indicate the operating status of the bridge.

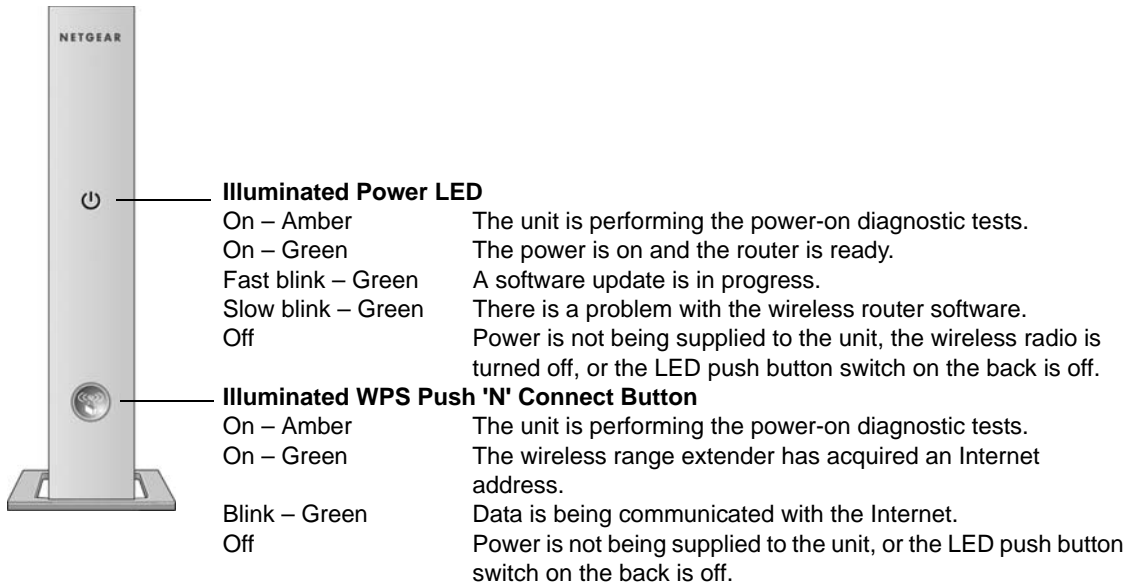


Figure 1-1



Note: Pressing the LED On/Off button on the back of the unit turns off all the LEDs, including the these on the front (Power, and WPS), as well as those on the rear (Ethernet status).

Back Panel Connectors, Buttons, and Switches

This illustration identifies the connectors and switches on the back of the unit.

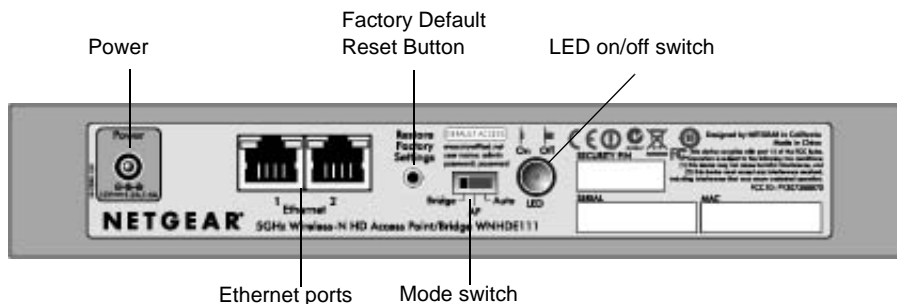


Figure 1-2

Table 1-1. Connectors, Buttons, and Switches

Connector, Button, or Switch	Description
Power connector	Port for connecting the AC power adapter.
Two 10/100 Mbps Ethernet ports	For connecting the unit via Ethernet cables to other equipment like switches, game consoles, media adapters, print servers, or a router.
Factory default reset button	Restore factory settings button. Use a paper clip to press this button for about 10 seconds to reset the unit to its factory default settings.
Mode switch settings	<ul style="list-style-type: none"> • Auto. Auto is the factory default setting. In Auto mode, if it senses it is connected to a router or gateway, it automatically sets itself to run as an AP. Otherwise, if connected to any other wired device, it automatically sets itself to run in Bridge mode. • AP. When switched to AP (access point) mode, it acts as an access point. In this mode, connect it to a router. The free Ethernet port can be used to connect other equipment to your network via an Ethernet cable. • Bridge. In Bridge mode, connect devices to it via Ethernet cables and they will connect to your wireless network. Typically, when a unit is set to bridge mode, it will be paired with a WNHDE111 working in AP mode.
LED On/Off button	Press this button to turn off all the LEDs, including the those on the front (Power, and WPS), as well as those on the rear (Ethernet status).

Key Back Panel Label Information



Note: The WNHDE111 comes with a WPA/WPA2 security key enabled by default. This key is the serial number printed on the label on the back of on the unit. The default wireless network name (SSID) is NETGEAR-HD.

This illustration identifies key information printed on the back panel label of the unit.

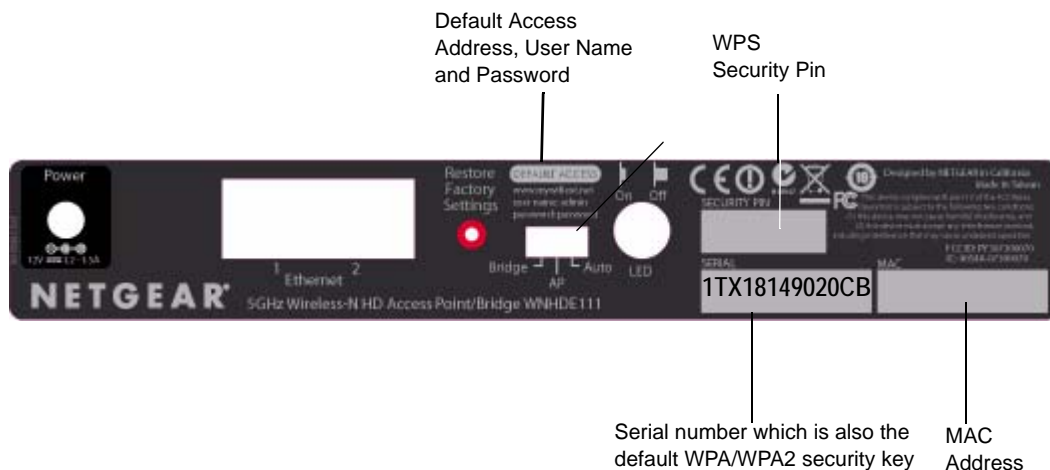


Figure 1-3

Table 1-2. Product label information

Item	Description
Default Access.	<p>Use this URL, user name and password to log in to the unit.</p> <p>Note: During initial setup, the URL will only connect you to the unit when your computer is attached directly to one of the unit's Ethernet ports.</p> <p>Tip: Generally, using the NETGEAR setup wizard will be more convenient than logging in to the unit with this information.</p>
WPS Security PIN.	<p>This PIN is used for devices that require manual entry of the WPS PIN, or with WPS registrar discovery services, found in Windows Vista for example.</p>

Table 1-2. Product label information

Item	Description
Serial Number which is also default WPA/WPA2 security key.	The serial number is also the factory default WPA/WPA2 security key. This enables easy automated WPS Push 'N' Connect setup.
MAC Address.	The Media Access Control (MAC) address of this unit, which will be visible in status monitoring screens on the unit or on a router.

Positioning Your Unit

The operating distance or range of your wireless connection can vary significantly depending on the physical placement of your unit. For example, the thickness and number of walls the wireless signal must pass through might limit the range.



Note: Failure to follow these guidelines can result in significant performance degradation or an inability to wirelessly connect to the bridge.

For best results, place your bridge:

- Near the center of the area where your computers and other devices will operate, preferably within line of sight to your wireless devices.
- Accessible to an AC power outlet and near Ethernet cables for wired computers.
- In an elevated location such as a high shelf, keeping the number of walls and ceilings between the wireless range extender and your other devices to a minimum.
- Away from any large metal surfaces, such as a solid metal door or aluminum studs. Large expanses of other materials such as glass, insulated walls, fish tanks, mirrors, brick, and concrete can also affect your wireless signal.
- If placing 2 Wireless-N AccessPoint/Bridges with a direct line of sight between them, do not place them closer than 15 feet, as the antennas are tuned for this optimum distance. Orient the 2 units with the front panels (the side with the Power light) facing each other.